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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/581,004	05/26/2006	Erich Buhler	UP-350	7249
Georges Pappas	7590 03/03/200 S	EXAMINER		
Pappas Law Of		MUROMOTO JR, ROBERT H		
Suite 300 919 S Harrison Street			ART UNIT	PAPER NUMBER
Fort Wayne, IN 46802			3765	
			MAIL DATE	DELIVERY MODE
			03/03/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)			
	10/581,004	BUHLER ET AL.			
Office Action Summary	Examiner	Art Unit			
	BOBBY H. MUROMOTO JR	3765			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
1) ☐ Responsive to communication(s) filed on 26 Mode 2a) ☐ This action is FINAL . 2b) ☐ This 3) ☐ Since this application is in condition for alloware closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro				
Disposition of Claims					
4) ☐ Claim(s) 1-20 is/are pending in the application. 4a) Of the above claim(s) is/are withdray 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-20 is/are rejected. 7) ☐ Claim(s) 1-20 is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or Application Papers 9) ☐ The specification is objected to by the Examine. 10) ☐ The drawing(s) filed on is/are: a) ☐ access that any objection to the objected to the content of	vn from consideration. r election requirement. r. epted or b) □ objected to by the B drawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).			
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.			
Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 8/28/2006.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate			

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DETAILED ACTION

Priority

Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Specification

The abstract of the disclosure is objected to because the language should be clear and concise and should not repeat information given in the title. It should avoid using phrases which can be implied, such as, "The disclosure concerns," "The disclosure defined by this invention," "The disclosure describes," etc.; and the form and legal phraseology often used in patent claims, such as "means" and "said," should be avoided.

Correction is required. See MPEP § 608.01(b).

Claim Objections

Claims 1-20 are objected to because of the following informalities: Claim 1 recites, "in particular for a shedding device..." This recitation creates some confusion as to whether the applicant is actually claiming the apparatus as 'for a shedding device' or not. Appropriate correction is required.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-8, 13-15, and 17-20 are rejected under 35 U.S.C. 102(b) as being anticipated by Speich US patent 6,328,076.

Speich discloses a thread control device for a shedding mechanism in a weaving loom. The actuator mechanism for the heddles (thread guiding members) is moved in one direction by a prestressed spring (positively designed) and in the opposite direction by a pneumatic cylinder/piston assembly 178a as seen in figure 41, that is connected to a gas supply 190 to a valve 184.

Figure 41 clearly shows valve seats limiting the stroke of the valve as claimed. The position of the valve when the spring is fully extended inherently occurs simultaneously with the 'shutting off' of the compressed gas source as Speich discloses, " the control element moving to and fro in the longitudinal direction is pretensioned in one direction at the lower end by means of a return <u>spring</u> and is connected at the upper end with the actuator by means of a connecting element such as a cord.

In such a thread control device, the actuator does not have to execute the entire stroke path, but only a part corresponding to the switching amplitude, with the result that the device can be constructed in a substantially simpler and smaller way by contrast with the jacquard device, and that only a smaller amount of energy is required to surmount the switching path by comparison with the existing jacquard devices."

Figure 41 clearly shows a first valve seat at one end of a housing 186 and a second valve seat at a closing off portion of the housing 186 having a passage duct in

the 'closed off portion' (slimmer upper portion of the housing); housing 186 is clearly cylindrical and sealed off.

The gap between the valve member and the housing wall inherently serves as a throttle point as the valve (piston) regulates the amount of pressure felt by the system.

The valve 184 is clearly shown as in the lower portion of the cylinder chamber.

The slimmed down portion of the upper portion of the housing 186 is considered a 'feed pressure chamber'.

The lower portion of the housing 186 clearly serves as a valve housing and has a gas feed source 190 that is on the lateral wall of the cylinder (pressure chamber).

Lower slimmed portion of the housing 186 serves as the first valve seat, while the upper slimmed portion serves as the second valve seat.

Claims 17-19 are functional in nature. Since all structure as claimed in these and intervening claims are disclosed, it follows that the functional limitations recited are inherently present since the claimed structure and the reference structure are shown as identical or nearly identical. Nothing precludes the reference structure from providing the functions recited in these claims.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 9-12 and 16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Speich in view of Hindle US patent 2,425,676.

Although Speich teaches essentially all of the limitations of the claimed invention, Speich does not specifically teach the use of an oil separator or oil separation outlet with the actuator cylinder/piston system.

However, the use of oil or other viscous fluids and lubricants in piston/cylinder devices is widely known and practiced in all types of mechanical arts to reduce friction and provide pressurized lubrication and dampening effects in moving mechanical parts. It would have been well within the skilled artisan's knowledge and experience to use oil as a pressurized lubrication fluid in a piston/cylinder arrangement (which would inherently include oil feed, outflow, and conduits) to provide lubrication and dampening effects to the moving parts of any machine much less a shedding device for a weaving loom.

Additionally, Hindle teaches a hydraulic shedding means that uses in combination with a cylinder/piston actuator oil and the required oil separation outlet/outflow device d2 to d4 located on the top and bottom of the pressure chamber or cylinder (depending on the stroke direction either of the conduits will serve as the feed or outflow tubes.

Therefore it would have been obvious to one of ordinary skill in the art to incorporate an oil circulation (feed, outflow, separation, storage) device into the cylinder/piston actuator of Speich to provide the actuator and interconnected

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mechanical parts of the loom with pressurized lubrication to reduce friction and noise between the moving parts of the shedding device.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to BOBBY H. MUROMOTO JR whose telephone number is (571)272-4991. The examiner can normally be reached on 8-530, M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gary Welch can be reached on 571-272-4996. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Robert H Muromoto, Jr./ Primary Examiner, Art Unit 3765 February 22, 2008